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The introduction to BES computing environment

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BES is an experiment on Beijing Electron-Positron Collider (BEPC).
BES computing environment consists of PC/Linux cluster and mainly relies on the free software. OpenPBS and Ganglia are used as job schedule and monitor system. With helps from CERN IT Division, CASTOR was implemented as storage management system. BEPC is being upgraded and luminosity will increase one hundred times comparing to current machine. The data produced by new BES-III detector will be about 700 Terabytes per year. To meet the computing demand, we proposed a solution based on PC/Linux/Cluster and SAN technology. CASTOR will be used to manage the storage resources of SAN. We started to develop a graphical interface for CASTOR. Some tests on data transmission performance of SAN environment were carried out. The result shows that I/O performance of SAN is better than that of traditional storage connection method including IDE, SCSI etc and it can satisfy BESIII experiment's demand for data processing.

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